

Title (en)
Particulate filter for diesel engines

Title (de)
Partikelfilter für Dieselmotoren

Title (fr)
Filtre à particules d'un moteur diesel

Publication
EP 1228797 B1 20060621 (EN)

Application
EP 01128886 A 20011205

Priority
IT TO20010034 A 20010119

Abstract (en)
[origin: EP1228797A1] A particulate filter for diesel engines comprises a metal shell or casing (2) inside which is set a filtering body made of ceramic foam. The filtering body is made up of a plurality of separate elements made of ceramic foam and having a substantially plane and elongated shape, which are set about a longitudinal axis (2a) of the shell (2) in such a way as to define, inside the shell (2), an inner chamber (B) set inside the array of filtering elements (8, 9) and at least one outer chamber (A) set outside the array. The said chambers respectively communicate with the intake pipe (5) and with the outlet pipe (7), or vice versa, in such a way that, during use, the flow of the engine exhaust gases that traverses the shell passing from the intake pipe (5) to the outlet pipe (7) (or vice versa) is forced to traverse the aforesaid filtering elements (8, 9), thus assuming a component of radial velocity with respect to the longitudinal axis of the shell (2).

IPC 8 full level
B01D 46/10 (2006.01); **B01D 46/00** (2006.01); **B01D 46/12** (2006.01); **F01N 3/02** (2006.01); **F01N 3/021** (2006.01); **F01N 3/022** (2006.01)

CPC (source: EP US)
B01D 46/10 (2013.01 - EP US); **B01D 46/58** (2022.01 - EP US); **B01D 46/62** (2022.01 - EP US); **F01N 3/0211** (2013.01 - EP US); **F01N 3/022** (2013.01 - EP US); **B01D 2279/30** (2013.01 - EP US); **F01N 2330/06** (2013.01 - EP US); **Y02T 10/12** (2013.01 - EP US); **Y10S 55/05** (2013.01 - EP US); **Y10S 55/30** (2013.01 - EP US); **Y10S 264/48** (2013.01 - EP US)

Cited by
DE102008004435B4; DE102008004435A1; CN114151169A; WO2008135175A1

Designated contracting state (EPC)
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)
EP 1228797 A1 20020807; **EP 1228797 B1 20060621**; AT E330691 T1 20060715; DE 60120898 D1 20060803; DE 60120898 T2 20070628; ES 2266077 T3 20070301; IT TO20010034 A0 20010119; IT TO20010034 A1 20020719; US 2002095918 A1 20020725; US 6773479 B2 20040810

DOCDB simple family (application)
EP 01128886 A 20011205; AT 01128886 T 20011205; DE 60120898 T 20011205; ES 01128886 T 20011205; IT TO20010034 A 20010119; US 5010902 A 20020118